

Pass-out Turbine.—In many instances the demands for power and low-pressure steam for heating purposes do not coincide sufficiently closely in regard to time or magnitude to obtain satisfactory working results with the use of a simple back-pressure machine, and it is then necessary to

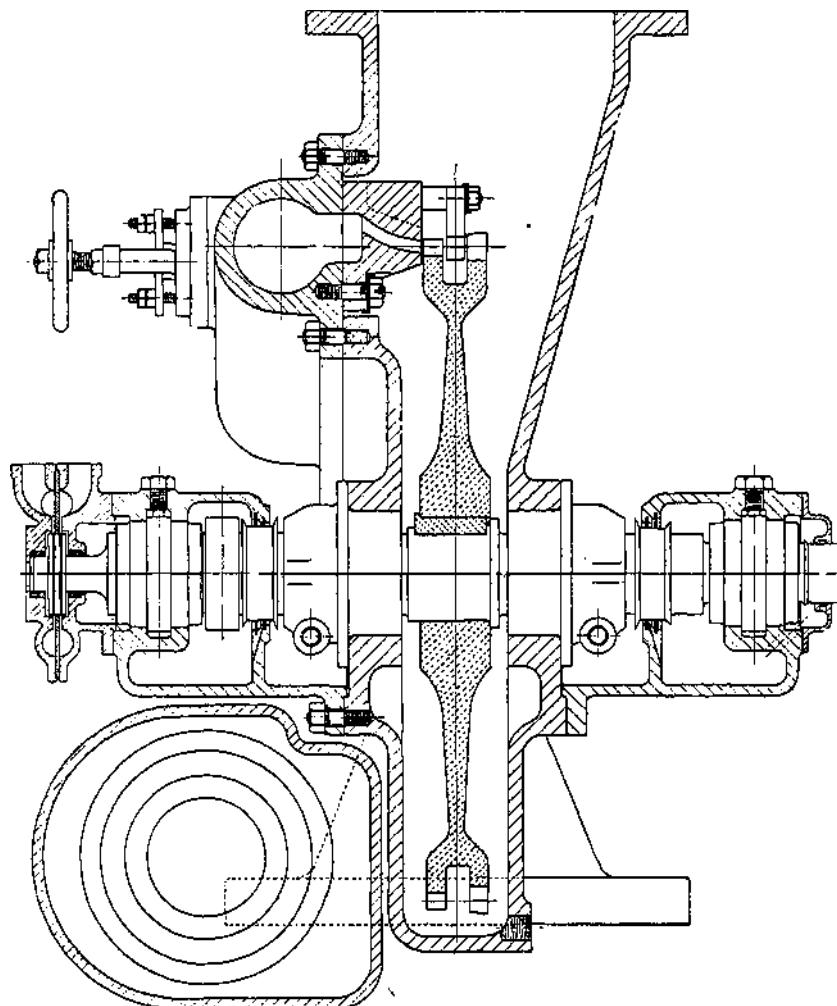


Fig. 46.—Section through Fraser & Chalmers'
Single-stage Back-pressure Steam Turbine

adopt a pass-out turbine, which, in principle, represents the converse of a mixed-pressure turbine and consists of a back-pressure turbine with auxiliary low-pressure stages. The installation must then include a condensing plant. Such a turbine should be capable of supplying any quantity of low-pressure steam required by the heating system and consistent with its loading. Where the heating load is correspondingly less than the power

load, then the additional steam admitted to the turbine must pass into the